

What Is Claimed Is:

1. An electric contact, in particular an electric contact of a plug-in connector, having a metallic substrate (11) to which a contact layer (12, 22, 32) is applied, wherein the contact layer (12, 22, 32, 42) is designed as a structured layer.
2. The electric contact as recited in Claim 1, wherein structuring is designed in such a way that particles (14, 24, 34) having a size between 1 nm and 1 μ m are dispersed in a matrix (13, 23, 33).
3. The electric contact as recited in Claim 2, wherein the proportion of the particles (14, 24) dispersed in the matrix (13, 23) is between 1 vol.% and 50 vol.%.
4. The electric contact as recited in Claim 2 or 3, wherein at least some of the dispersed particles (14) have a greater hardness than the matrix (13) and are preferably made of aluminum oxide, zirconium oxide, yttrium oxide, a titanium aluminide, a titanium nitride, and/or a ruthenium alloy phase.
5. The electric contact as recited in one of Claims 2 through 4, wherein at least some of the dispersed particles (24) are made of a solid-state lubricant, which is preferably graphite.
6. The electric contact as recited in Claim 2 or 3, wherein the dispersed particles (34) are oil capsules or oil cavities.
7. The electric contact as recited in Claim 6, wherein the oil capsules (34) include a lubricant having antioxidants and/or antiadhesive additives and are bounded by a polymer skin.
8. The electric contact as recited in one of Claims 2 through 7, wherein the matrix is made of silver or a silver alloy and the dispersion structure is produced electrolytically.
9. The electric contact as recited in Claim 1, wherein the structure is formed by a multilayer system (42) which is made

up of successive layers having different chemical compositions.

10. The electric contact as recited in one of Claims 1 through 9, wherein at least some areas of the contact layer (42) have a noble metal cover layer (43) which is made of gold, silver, platinum, ruthenium, palladium, or an alloy of these elements.